

Figure 1
Prior Art

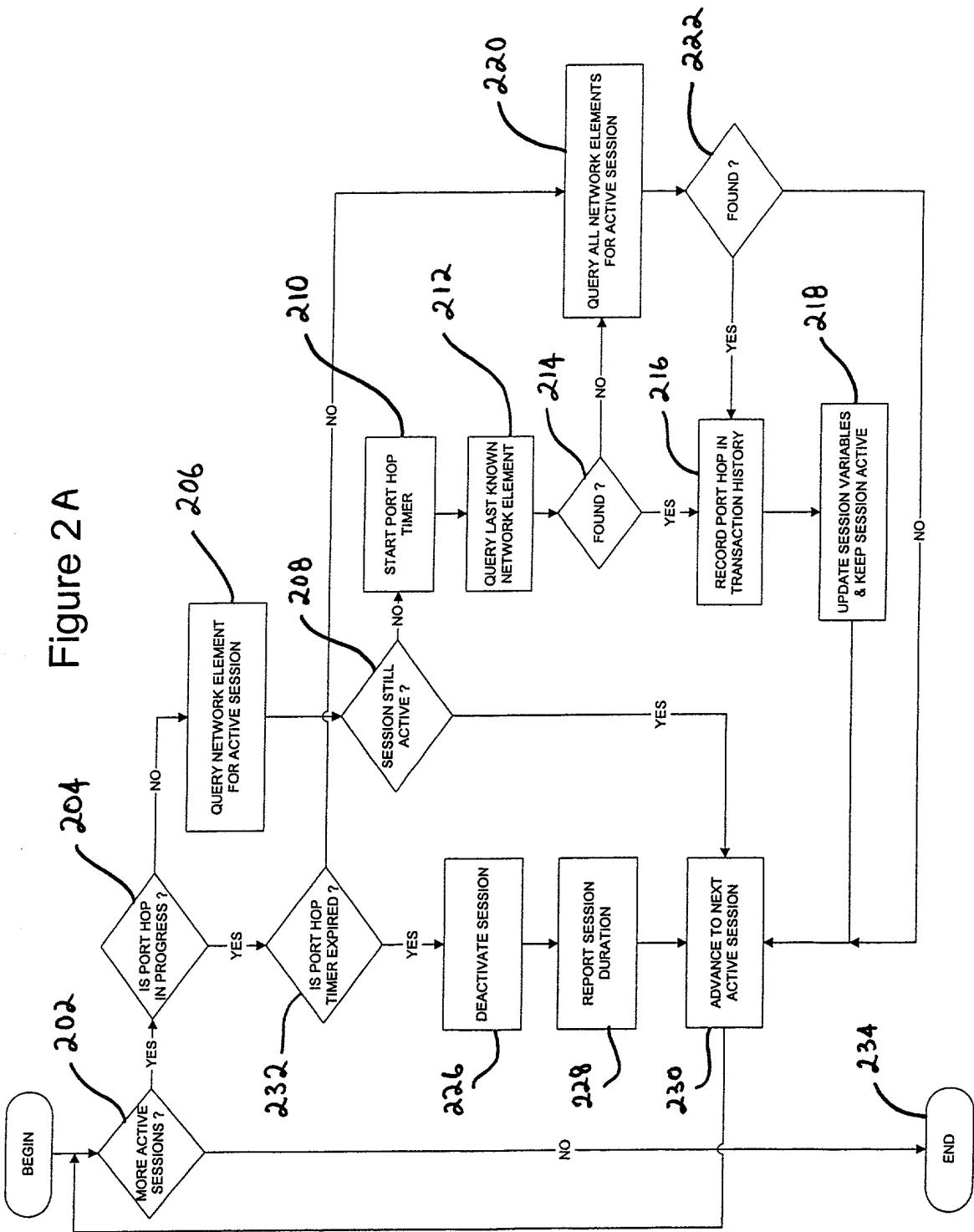


Figure 2B

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graph TD
    BEGIN([BEGIN]) -- 202 --> MORE_ACTIVE_SESSIONS{MORE ACTIVE SESSIONS?}
    MORE_ACTIVE_SESSIONS -- YES --> IS_PORT_HOP_IN_PROGRESS{IS PORT HOP IN PROGRESS?}
    IS_PORT_HOP_IN_PROGRESS -- YES --> IS_PORT_HOP_EXPIRED{IS PORT HOP EXPIRED?}
    IS_PORT_HOP_EXPIRED -- YES --> DEACTIVATE_SESSION[DEACTIVATE SESSION]
    DEACTIVATE_SESSION --> REPORT_SESSION_DURATION[REPORT SESSION DURATION]
    REPORT_SESSION_DURATION --> ADVANCE_TO_NEXT_ACTIVE_SESSION[ADVANCE TO NEXT ACTIVE SESSION]
    ADVANCE_TO_NEXT_ACTIVE_SESSION --> MORE_ACTIVE_SESSIONS
    IS_PORT_HOP_IN_PROGRESS -- NO --> QUERY_NETWORK_ELEMENT[QUERY NETWORK ELEMENT FOR ACTIVE SESSION]
    QUERY_NETWORK_ELEMENT --> 208
    208 -- NO --> SESSION_STILL_ACTIVE{SESSION STILL ACTIVE?}
    SESSION_STILL_ACTIVE -- NO --> QUERY_ALL_NETWORK_ELEMENTS[QUERY ALL NETWORK ELEMENTS FOR ACTIVE SESSION]
    QUERY_ALL_NETWORK_ELEMENTS --> FOUND{FOUND?}
    FOUND -- NO --> 214
    FOUND -- YES --> RECORD_PORT_HOP_IN_TRANSACTION_HISTORY[RECORD PORT HOP IN TRANSACTION HISTORY]
    RECORD_PORT_HOP_IN_TRANSACTION_HISTORY --> UPDATE_SESSION_VARIABLES[UPDATE SESSION VARIABLES & KEEP SESSION ACTIVE]
    UPDATE_SESSION_VARIABLES --> 218
    218 -- NO --> END([END])
    218 -- YES --> 220
    220 --> 222
    222 -- NO --> 224
    224 -- NO --> 226
    224 -- YES --> SITE_EQUALS_DESTINATION{SITE # AT SOURCE PORT = SITE # AT DESTINATION PORT?}
    SITE_EQUALS_DESTINATION -- NO --> 226
    SITE_EQUALS_DESTINATION -- YES --> 228
    228 --> 230
    230 --> ADVANCE_TO_NEXT_ACTIVE_SESSION
    230 -- NO --> MORE_ACTIVE_SESSIONS
    226 -- NO --> MORE_ACTIVE_SESSIONS
    226 -- YES --> 234
  
```

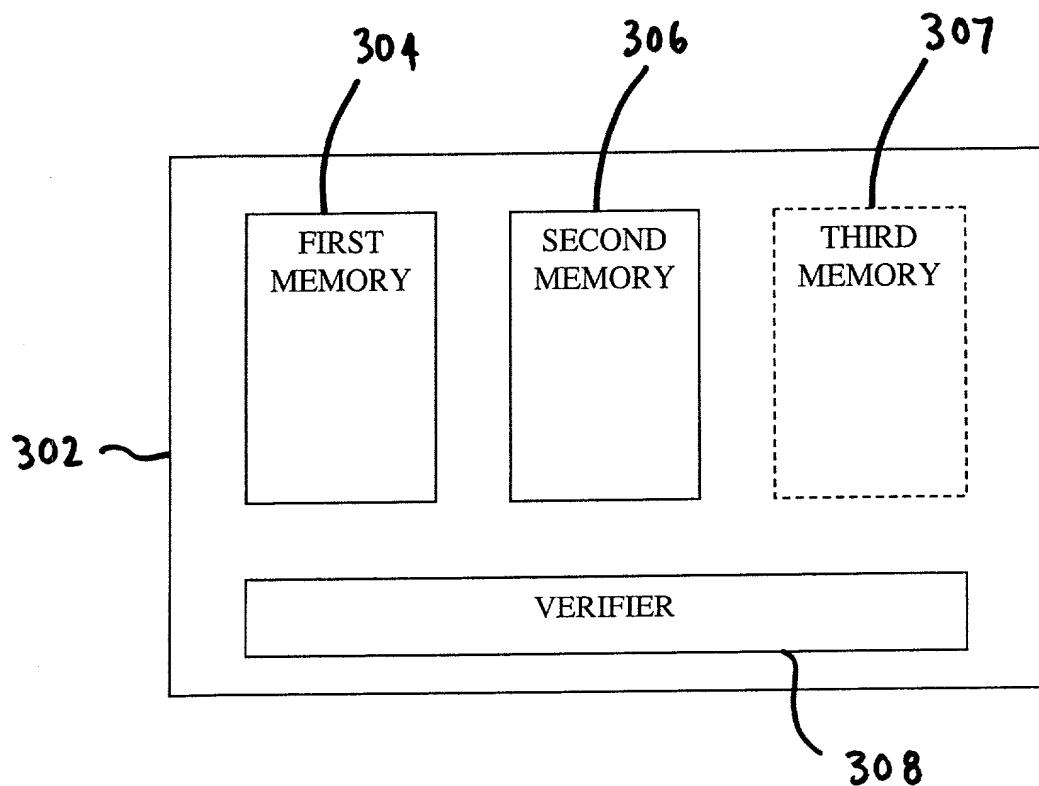


FIG. 3

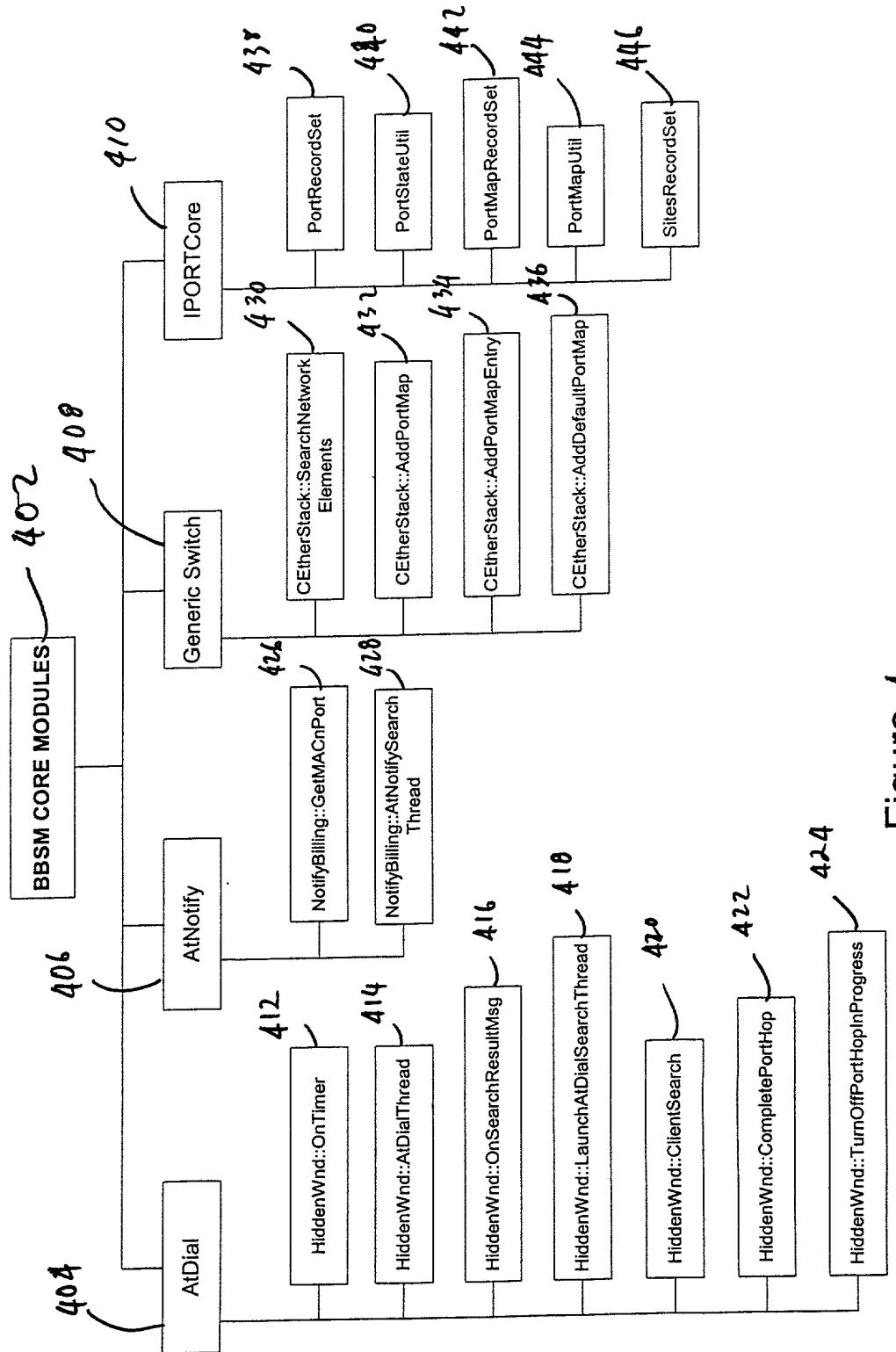


Figure 4

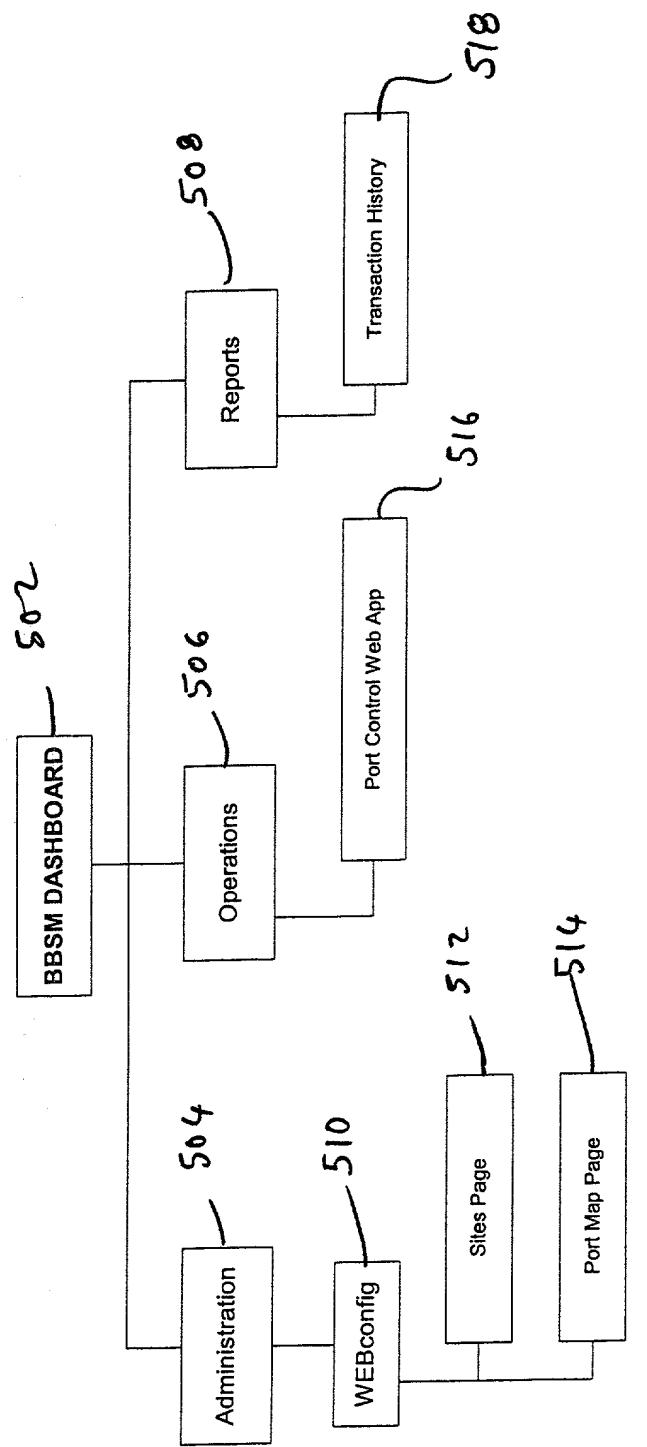


Figure 5

Sites - WEBconfig - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Stop Favorites

Address: http://localhost:9080/webconfig/sites.asp

Building Broadband Service Manager

WEBconfig - Sites

Criss Systems

General

Site Number: 1 Site Description: Site 1

Site Location: Location A

Allow multiple concurrent RADIUS sessions:

Port Hop Delay (minutes):

Printing

BSM Printer: Network Printer Local Printer

Max Price Per Job:

Price per Page:

Printer Account User ID:

Printer Account Password:

Please Confirm Password:

Credit Card Billing

Merchant ID:

Hotel Billing

Admin IP Address:

PMS Billing:

Print Billing:

Default

Request: Update: Done:

LocalInBranch:

Figure 6

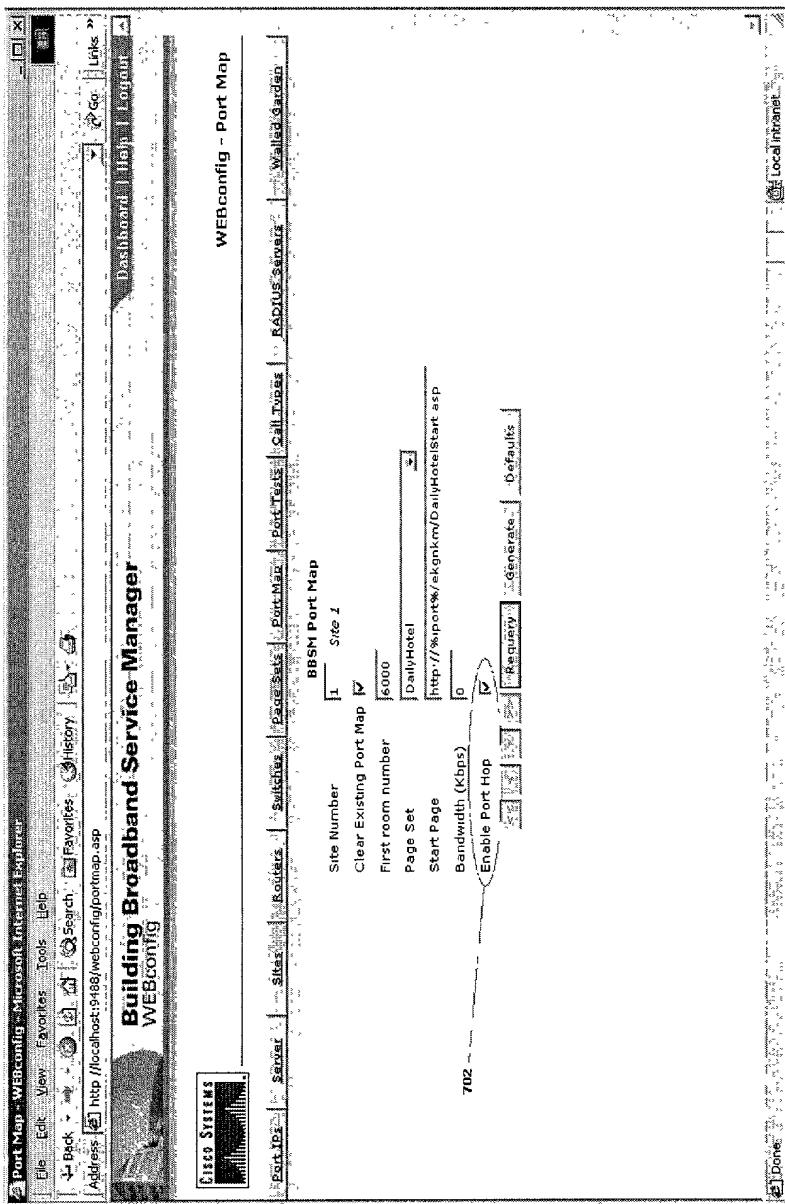


Figure 7

Building Broadband Service Manager - Port Control - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Home Favorites Search History Help

Address:

Site 1, Site 1

Port Control Pages

Dashboard Help Logout

Up-Date List View

Building Broadband Service Manager

Port Control

PORT CONTROL FORM

Cisco Systems

Port ID: 00010001000007
 True False

Uplink Port: Room Number: 6006

Time of Last Sale: Time: ::

Time of Last Configure: Time: ::

Start Authorized Period: Sep 13 2001 Time: 04 :55 PM

End Authorized Period: Sep 13 2001 Time: 04 :55 PM

BandwidthKbps: 0 802

Page Set: Daily/Hotel

Start Page: <http://120.0.1.100/9490/Day/HotelStart.asp>

Enable Port Hop: True False

Modem MAC Address:

Comment:

Switch Mode: Modem LocalIntranet

Time of last port test: never

Done

Figure 8

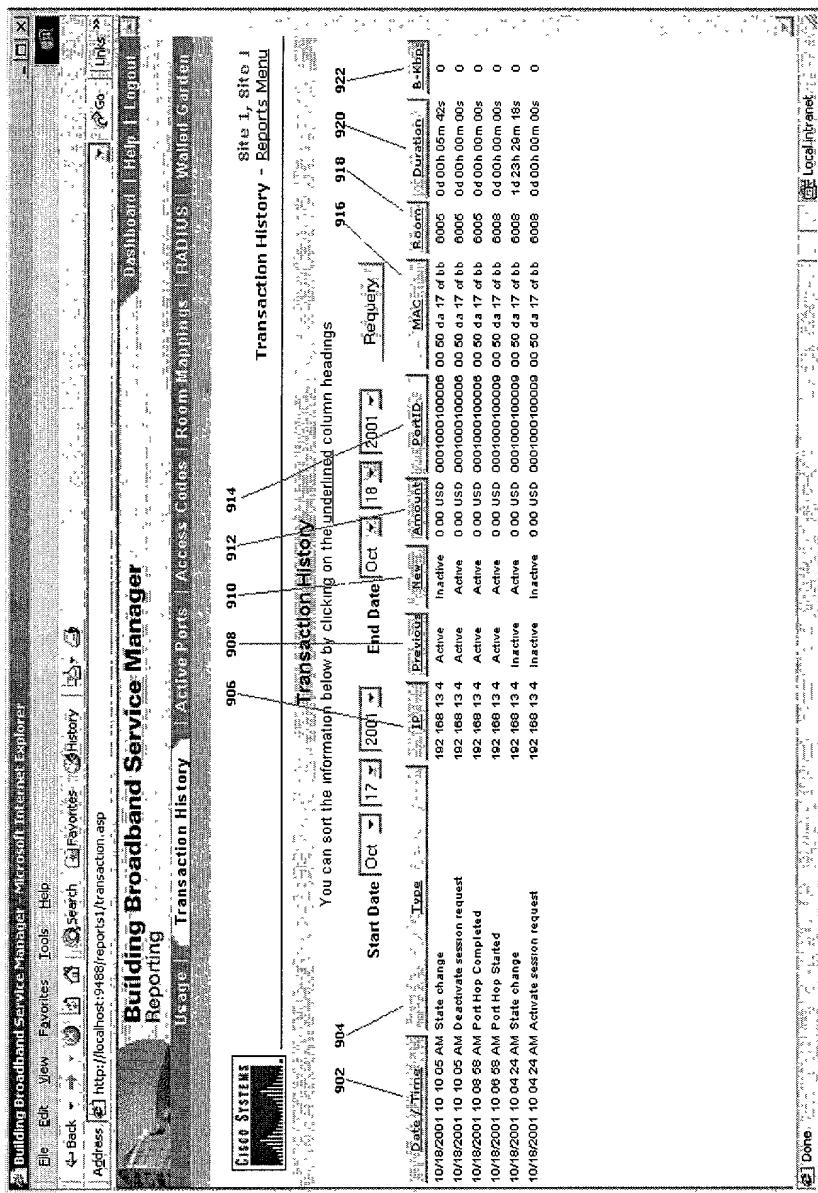


Figure 9

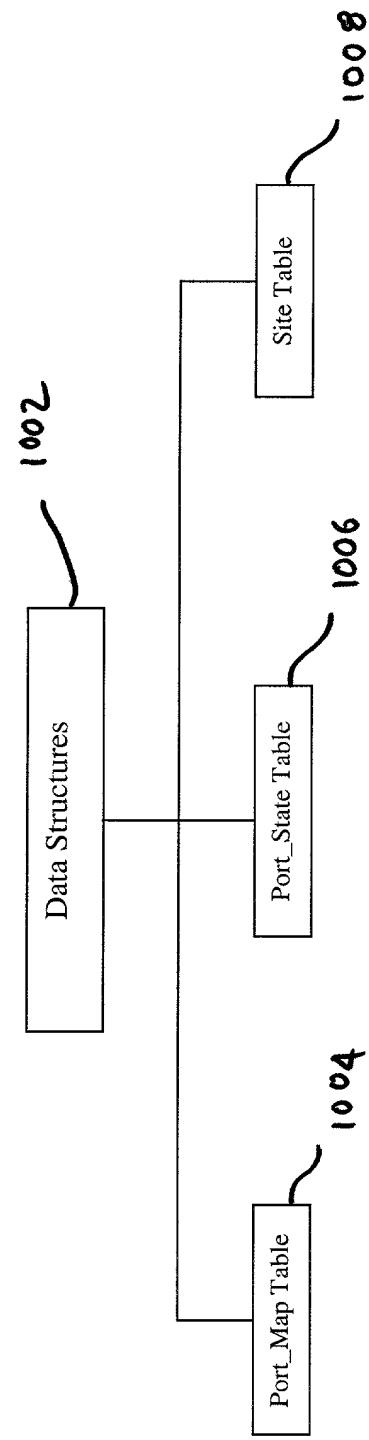


FIG. 10